

Form PTO-1449  
U.S. DEPARTMENT OF COMMERCE (Rev. 7-80)  
PATENT AND TRADEMARK OFFICE

ATTORNEY DOCKET NO.: 14114.0343U2

**SERIAL NO. 09/623,038**

**APPLICANT:** Carlone et al.

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**LIST OF PRIOR ART CITED BY APPLICANT**  
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**FILING DATE:** November 27, 2000

~~GROUP: 1614~~

1645

## U.S. PATENT DOCUMENTS

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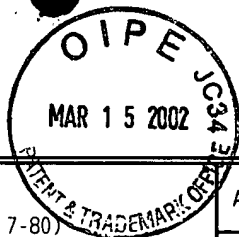
## FOREIGN PATENT DOCUMENTS

[illegible]

**OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)**

5D	B1	Arnon. Synthetic Vaccines. CRC Press, Inc. Boca Raton, Fl. 1:83-92 (1987)
	B2	Avery et al. Studies on the Chemical Nature of the Substance Inducing Transformation of Pneumococcal Types. <i>J. Exp. Med.</i> 79:137-157 (1944)
	B3	Bebbington et al. High-Level Expression of a Recombinant Antibody from Myeloma Cells Using a Glutamine Synthetase Gene as an Amplifiable Selectable Marker. <i>Bio. Tech.</i> 10:169-175 (1992)
	B4	Bilofsky et al. A GenBank Genetic Sequence Data Bank. <i>Nucl. Acid Res.</i> 16(5):1861-1864 (1988)
	B5	Carlone et al. Immune Serum to Protein Molecular Weight Standards for Calibrating Western Blots. <i>Anal. Biochem.</i> 155:89-91 (1986)
	B6	Carter et al. High Level <i>Escherichia Coli</i> Expression and Production of a Bivalent Humanized Antibody Fragment. <i>Bio. Tech.</i> 10:163-167 (1992)
	B7	Clafin et al. Mouse Myeloma-Spleen Cell Hybrids: Enhanced Hybridization Frequencies and Rapid Screening Procedures. <i>Curr. Top. Microbiol. Immunol.</i> 81:107-109 (1978)
5D	B8	De et al. Baculovirus Expressed Recombinant Pneumococcal Surface Adhesin A (rPsaA) of Streptococcus Pneumoniae Serotype 6B Generates Murine Antibodies Capable of Passive Protection in an Infant Mouse Model of Bacteremia. <i>Abstracts in Immunology.</i> 251(E-66) (1997)

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U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
SD	A1	5.422.427	06/06/95	Russell et al.	530	350	
	A2	5.130.417	07/14/92	Stanley, Jr. et al	530	350	
	A3	5.037.760	08/06/91	Smith et al.	435	320.1	
	A4	4.894.362	01/16/90	Yamaguchi et al.	514	12	
	A5	4.808.700	02/28/89	Anderson et al	530	403	
	A6	4.762.713	08/09/88	Anderson, P.W.	424	92	
SD	A7	3.710.795	01/16/73	Higuchi et al.	128	260	

FOREIGN PATENT DOCUMENTS

SD	A8	EP 0429816	06/05/91	EPO			
	A9	EP 0206852	12/30/86	EPO			
	A10	WO 99/40200	08/12/99	PCT			
	A11	WO 93/10238	05/27/93	PCT			
SD	A12	WO 91/15237	10/17/91	PCT			

OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

SD	A13	Advertisement offering custom DNA/Peptides; total gene synthesis. <i>Science</i> . 240:362 (1988)
	A14	Berry et al. Sequence heterogeneity of PsaA, a 37-kilodalton putative adhesin essential for virulence of <i>Streptococcus pneumoniae</i> . <i>Infect. Immun.</i> 64(12):5255-5262 (1996)
	A15	Caruthers. Gene Synthesis Machines: DNA Chemistry and Its Uses. <i>Science</i> 230:281-285 (October 1985)
	A16	Clark-Lewis et al. Automated Chemical Synthesis of a Protein Growth Factor for Hemopoietic Cells. Interleukin-3. <i>Science</i> 231:134-139 (1986)
	A17	Crook et al. Immunoreactivity of five monoclonal antibodies against the 37-kilodalton common cell wall protein (PsaA) of <i>Streptococcus pneumoniae</i> . <i>Clin. Diagn. Lab. Immunol.</i> 5(2):205-210 (March 1998)
	A18	Fenno et al. Nucleotide Sequence Analysis of a Type 1 Fimbrial Gene of <i>Streptococcus sanguis</i> FW213. <i>Infect. Immun.</i> 57(11):3527-3533 (November 1989)
	A19	Fives-Taylor et al. Expression of <i>Streptococcus sanguis</i> Antigens in <i>Escherichia coli</i> : Cloning of a Structural Gene for Adhesion Fimbriae. <i>Infect. And Immun.</i> 55(1):123-128 (January 1987)
SD	A20	Ganeshkumar et al. Nucleotide Sequence of a Gene Coding for a Saliva-Binding Protein (SsaB) from <i>Streptococcus sanguis</i> 12 and Possible Role of the Protein in Coaggregation with <i>Actinomyces</i> . <i>Infect. Immun.</i> 59(3):1093-1099 (March 1991)



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SD	A21	Kolenbrander et al. Nucleotide sequence of the <i>Streptococcus gordonii</i> PK488 coaggregation adhesin gene <i>scaA</i> and ATP-binding cassette. <i>Infect. Immun.</i> 62(10):4469-4480 (1994)
-	A22	Russell et al. Isolation and Purification of a Species-Specific <i>Streptococcus pneumoniae</i> protein Antigen by Isoelectric Focusing. <i>Abst. Ann. Am. Soc. Microbiol.</i> 90:436 (1990)
-	A23	Russell et al. Monoclonal Antibody Recognizing a Species-Specific Protein from <i>Streptococcus pneumoniae</i> . <i>Clin. Microbiol.</i> 28(10):2191-2195 (October 1990)
-	A24	Sampson et al. Conservation of the 37-kDa Protein Gene among <i>Streptococcus pneumoniae</i> Serotypes. (IPAC) (September 17, 1995)
-	A25	Sampson et al. Cloning and nucleotide sequence analysis of <i>psaA</i> , the <i>Streptococcus pneumoniae</i> gene encoding a 37-kilodalton protein homologous to previously reported <i>Streptococcus</i> sp. adhesins. <i>Infect. Immun.</i> 62(1):319-324 (January 1994)
-	A26	Sampson, et al. Limited Diversity of <i>Streptococcus pneumoniae</i> <i>psaA</i> among Pneumococcal Vaccine Serotypes. <i>Infect. Immun.</i> 65(5):1967-1971 (May 1997)
-	A27	Sampson et al. Immunologic characterization of a monoclonal antibody to <i>Streptococcus pneumoniae</i> pneumococcal surface adhesin A (PsaS) protein. <i>Abst. Ann. Am. Soc. Microbiol.</i> (1999)
-	A28	Srivastava, et al. Selection of an Immunogenic and Protective Epitope of the PsaA Protein of <i>Streptococcus pneumoniae</i> Using a Phage Display Library. <i>Hybridoma</i> 19(1):23-31 (2000)
-	A29	Talkington et al. Protection of mice against fatal pneumococcal challenge by immunization with pneumococcal surface adhesin A (PsaA). <i>Microb. Pathogen.</i> 21(1):17-22 (1996)
SD	A30	Tharpe et al. Purification and Seroreactivity of Pneumococcal Surface Adhesin A (PsaA). <i>Clin. Diag. Lab. Immunol.</i> 3(2):227-229 (March 1996)
EXAMINER:	SD	DATE CONSIDERED: August 03
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